

STIC-ILL

NO 5/15

445978

**From:** Portner, Ginny  
**Sent:** Thursday, May 15, 2003 11:37 AM  
**T :** STIC-ILL  
**Cc:** Smith, Lynette  
**Subject:** 09/380,846; references requested for lactate dehydrogenase claims

**Importance:** High

06146078 89161496 PMID: 2922510

Enzyme variation and pathogenicity of recent field isolates of *Eimeria* tenella.

Shirley M W; Chapman H D; Kucera J; Jeffers T K; Bednir P

Institute for Animal Health, Houghton Laboratory, Huntingdon, Cambridgeshire.

Research in veterinary science (ENGLAND) Jan 1989, 46 (1) p79-83,

ISSN 0034-5288 Journal Code: 0401300

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

*Ginny Portner*  
CM1, Art Unit 1645  
Room 7e13  
Mail box 7e12  
(703) 308-7543

10567917

STIC-ILL

---

*mic/only*

**From:** Portner, Ginny  
**Sent:** Thursday, May 15, 2003 11:39 AM  
**To:** STIC-ILL  
**Cc:** Smith, Lynette  
**Subject:** 09/380,846; references requested for lactate dehydrogenase claims

**Importance:** High

03844132 82256366 PMID: 7103889

Attenuation of a strain of *Eimeria mivati* of U.S. origin by serial embryo passage.

Long P L; Johnson J; Gore T C

Avian diseases (UNITED STATES) Apr-Jun 1982, 26 (2) p305-13, ISSN

0005-2086 Journal Code: 0370617

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

*Ginny Portner*  
CM1, Art Unit 1645  
Room 7e13  
Mail box 7e12  
(703) 308-7543

**STIC-ILL**

---

**Fr m:** Portner, Ginny  
**Sent:** Thursday, May 15, 2003 11:38 AM  
**To:** STIC-ILL  
**Cc:** Smith, Lynette  
**Subject:** 09/380,846; references requested for lactate dehydrogenase claims

*mic*  
*only*

4427277 84069417 PMID: 6646805  
Studies to determine the taxonomic status of *Eimeria mitis*, Tyzzer 1929  
and *E. mivati*, Edgar and Seibold 1964.  
Shirley M W; Jeffers T K; Long P L  
Parasitology (ENGLAND) Oct 1983, 87 (Pt 2) p185-98, ISSN 0031-1820  
Journal Code: 0401121  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: Completed  
Subfile: INDEX MEDICUS

*Ginny Portner*  
CM1, Art Unit 1645  
Room 7e13  
Mail box 7e12  
(703) 308-7543

STIC-ILL

Vol 10 5/15

From: Portner, Ginny  
Sent: Thursday, May 15, 2003 11:43 AM  
To: STIC-ILL  
Cc: Smith, Lynette  
Subject: 09/380,846

445989

00241090 BIOSIS NO.: 000050056090  
EIMERIA -STIEDAE CYTOCHEMICAL IDENTIFICATION OF ENZ ACID PHOSPHATASE AND  
ENZ ALKALINE PHOSPHATASES ENZ CARBOXYLIC ESTER HYDROLASES AND ENZ  
SUCCINATE DEHYDROGENASE ENZ LACTATE DEHYDROGENASE AND ENZ GLUCOSE-6  
PHOSPHATE DEHYDROGENASE IN ENDOGENOUS STAGES FROM RABBIT TISSUES  
AUTHOR: FRANDSEN J C  
JOURNAL: EXP PARASITOL 23 (3). 398-411. 1968. 1968  
FULL JOURNAL NAME: Experimental Parasitology  
CODEN: EXPAA  
RECORD TYPE: Citation

10569598

Ginny Portner  
CM1, Art Unit 1645  
Room 7e13  
Mail box 7e12  
(703) 308-7543

STIC-ILL

Vol 5/15

445987

**From:** Portner, Ginny  
**Sent:** Thursday, May 15, 2003 11:42 AM  
**To:** STIC-ILL  
**Cc:** Smith, Lynette  
**Subject:** 09/380,846; reference for updated search

00547925 69079196 PMID: 5701763

Eimeria stiedae: cytochemical identification of acid and alkaline phosphatases, carboxylic ester hydrolases, and succinate, (lactate) and glucose-6-phosphate dehydrogenases in endogenous stages from rabbit tissues.

Frandsen J C

Experimental parasitology (UNITED STATES) Dec 1968, 23 (3) p398-411,  
ISSN 0014-4894 Journal Code: 0370713

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Tags: Animal

10569497

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Room 7e13  
Mail box 7e12  
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STIC-ILL

Vol no 5/15

From: Portner, Ginny  
S nt: Thursday, May 15, 2003 11:41 AM  
To: STIC-ILL  
Cc: Smith, Lynette  
Subject: 09/380,846; references requested for lactate dehydrogenase claims

445988

Importance: High

01460771 73083928 PMID: 4346146

Enzymes of coccidia : purification and properties of L-lactate  
dehydrogenase from Eimeria stiedae.

Frandsen J C; Cooper J A

Experimental parasitology (UNITED STATES) Dec 1972, 32 (3) p390-402,

ISSN 0014-4894 Journal Code: 0370713

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Tags: Animal

10569522

*Ginny Portner*  
CM1, Art Unit 1645  
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STIC-ILL

NO 5/15

From: Portner, Ginny  
S nt: Thursday, May 15, 2003 11:36 AM  
To: STIC-ILL  
Cc: Smith, Lynette  
Subject: 09/380,846; references requested for lactate dehydrogenase claims

445972

Importance: High

07362256 92225423 PMID: 1808028

Enzyme variants of Eimeria parasitizing the domestic fowl and possibilities of species diagnostics.

Kucera J  
Research Institute for Feed Supplements and Veterinary Drugs, Prague, Czechoslovakia.

Folia parasitologica (CZECHOSLOVAKIA) 1991, 38 (3) p193-9, ISSN 0015-5683 Journal Code: 0065750

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Ginny Portner  
CM1, Art Unit 1645  
Room 7e13  
Mail box 7e12  
(703) 308-7543

Agg  
5/16  
VRD

COMPLETED

8  
72

STIC-ILL

NO 5/15

**From:** Portner, Ginny  
**S nt:** Thursday, May 15, 2003 11:40 AM  
**To:** STIC-ILL  
**Cc:** Smith, Lynette  
**Subject:** 09/380,846; references requested for lactate dehydrogenase claims

445985

02903907 79078933 PMID: 726560

Electrophoretic variation of enzymes: a further marker for genetic studies of the *Eimeria*.

Shirley M W

Zeitschrift fur Parasitenkunde (Berlin, Germany) (GERMANY, WEST) Sep 4 1978, 57 (1) p83-7, ISSN 0044-3255 Journal Code: 8710749

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

*Ginny Portner*  
CM1, Art Unit 1645  
Room 7e13  
Mail box 7e12  
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10562916



STIC-ILL

NO 5/15

From: Portner, Ginny  
Sent: Thursday, May 15, 2003 11:42 AM  
To: STIC-ILL  
Cc: Smith, Lynette  
Subject: 09/380,846

445986

Importance:

High

10929135 97281360 PMID: 9135668

Monoclonal antibodies against lactate dehydrogenase of Plasmodium knowlesi.

Kaushal D C; Kaushal N A; Chandra D

Division of Microbiology, Central Drug Research Institute, Lucknow, India.

Indian journal of experimental biology (INDIA) Jan 1995, 33 (1) p6-11, ISSN 0019-5189 Journal Code: 0233411

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

10569479

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CM1, Art Unit 1645  
Room 7e13  
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(703) 308-7543

STIC-ILL

Vol 10 515

From: Portner, Ginny  
Sent: Thursday, May 15, 2003 11:40 AM  
To: STIC-ILL  
Cc: Smith, Lynette  
Subject: 09/380,846; references requested for lactate dehydrogenase claims

445984

02477294 77167679 PMID: 859094  
Isoelectric focusing of coccidial enzymes.  
Shirley M W; Lee D L  
Journal of parasitology (UNITED STATES) Apr 1977, 63 (2) p390-2,  
ISSN 0022-3395 Journal Code: 7803124  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: Completed  
Subfile: INDEX MEDICUS  
Tags: Animal  
Descriptors: Eimeria --enzymology--EN; Isoelectric Focusing; Isoenzymes;  
Lactate Dehydrogenase --isolation and purification--IP  
CAS Registry No.: 0 (Isoenzymes)  
Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase)  
Record Date Created: 19770630  
Record Date Completed: 19770630

10569453

Ginny Portner  
CM1, Art Unit 1645  
Room 7e13  
Mail box 7e12  
(703) 308-7543

STIC-ILL

10568963

NO 5/15

From: Portner, Ginny  
Sent: Thursday, May 15, 2003 11:43 AM  
To: STIC-ILL  
Cc: Smith, Lynette  
Subject: 09/380,846

445990

Importance: High

06736560 90362597 PMID: 2144028

Identification of Eimeria brunetti using glucose phosphate isomerase  
and lactate dehydrogenase.

Nakamura T; Kawaguchi H; Imose J

Aburahi Laboratories, Shionogi Research Laboratories, Shionogi & Co.,  
Ltd., Shiga, Japan.

Nippon juigaku zasshi. The Japanese journal of veterinary science (JAPAN)

Aug 1990, 52 (4) p859-60, ISSN 0021-5295 Journal Code: 0057113

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Ginny Portner  
CM1, Art Unit 1645  
Room 7e13  
Mail box 7e12  
(703) 308-7543

BU - NO

save temp  
 Temp SearchSave "TD698" stored  
 ?rf  
 Your last SELECT statement was:  
 S EIMER?/TI (100N) (LACTATE? (2N) DEHYDROGENA?)

Ref	Items	File
N1	3	5: Biosis Previews(R)_1969-2003/May W2
N2	3	399: CA SEARCH(R)_1967-2003/UD=13820
N3	2	50: CAB Abstracts_1972-2003/Apr
N4	2	155: MEDLINE(R)_1966-2003/May W2
N5	2*	398: CHEMSEARCH(TM)_1957-2003/Apr
N6	2	440: Current Contents Search(R)_1990-2003/May 15
N7	1	10: AGRICOLA_70-2003/May
N8	1	34: SciSearch(R) Cited Ref Sci_1990-2003/May W1
N9	1	94: JICST-EPlus_1985-2003/May W1
N10	1	144: Pascal_1973-2003/May W1

15 files have one or more items; file list includes 281 files.

\* One or more search terms are invalid in this file

- Enter P or PAGE for more -

?b n4 n1:n3 N5:n15;exs  
 15may03 10:10:04 User228206 Session D1971.4  
 \$6.36 3.180 DialUnits File411  
 \$6.36 Estimated cost File411  
 \$0.46 TELNET  
 \$6.82 Estimated cost this search  
 \$7.08 Estimated total session cost 3.261 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1966-2003/May W2  
 (c) format only 2003 The Dialog Corp.

**\*File 155: Medline has been reloaded and accession numbers have changed.** Please see HELP NEWS 155.

File 5:Biosis Previews(R) 1969-2003/May W2  
 (c) 2003 BIOSIS

**\*File 5: Alert feature enhanced for multiple files, duplicates removal, customized scheduling.** See HELP ALERT.

File 399:CA SEARCH(R) 1967-2003/UD=13820  
 (c) 2003 American Chemical Society

**\*File 399: Use is subject to the terms of your user/customer agreement.** Alert feature enhanced for multiple files, etc. See HELP ALERT.

File 50:CAB Abstracts 1972-2003/Apr  
 (c) 2003 CAB International

**\*File 50: Truncating CC codes is recommended for full retrieval.** See Help News50 for details.

File 398:CHEMSEARCH(TM) 1957-2003/Apr  
 (c) 2003 Amer.Chem.Soc.

**\*File 398: Use is subject to the terms of your user/customer agreement.** Problems with SORT. RANK charge added. See HELP RATES 398.

File 440:Current Contents Search(R) 1990-2003/May 15  
 (c) 2003 Inst for Sci Info

**\*File 440: Daily alerts are now available.**

File 10:AGRICOLA 70-2003/May  
 (c) format only 2003 The Dialog Corporation

File 34:SciSearch(R) Cited Ref Sci 1990-2003/May W1  
 (c) 2003 Inst for Sci Info

**\*File 34: Alert feature enhanced for multiple files, duplicates removal, customized scheduling.** See HELP ALERT.

File 94:JICST-EPlus 1985-2003/May W1  
 (c)2003 Japan Science and Tech Corp(JST)

File 144:Pascal 1973-2003/May W1  
 (c) 2003 INIST/CNRS

File 340:CLAIMS(R)/US Patent 1950-03/May 13  
 (c) 2003 IFI/CLAIMS(R)

**\*File 340: The Claims U.S. Patent databases have been reloaded.** HELP NEWS340 & HELP ALERTS340 for search, display & Alert info.

File 342:Derwent Patents Citation Indx 1978-01/200301

(c) 2003 Thomson Derwent

**\*File 342: Updates 200160-200209 replaced. See HELP NEWS 342.**

Alert feature enhanced for multiple files, etc. See HELP ALERT.

File 345:Inpadoc/Fam.& Legal Stat 1968-2003/UD=200318

(c) 2003 EPO

File 357:Derwent Biotech Res. \_1982-2003/May W2

(c) 2003 Thomson Derwent & ISI

**\*File 357: File is now current. See HELP NEWS 357.**

Alert feature enhanced for multiple files, etc. See HELP ALERT.

File 654:US PAT.FULL. 1976-2003/May 13

(c) FORMAT ONLY 2003 THE DIALOG CORP.

**\*File 654: Reassignments current through Feb. 7, 2003**

Set Items Description

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Executing TD698

>>>SET HILIGHT: use ON, OFF, or 1-5 characters

>>>Term "TI" is not defined in one or more files

31532 EIMER?/TI

321385 LACTATE?

650445 DEHYDROGENA?

S1 23 EIMER?/TI (100N) (LACTATE? (2N) DEHYDROGENA?)

?rd

>>>Duplicate detection is not supported for File 398.

>>>Duplicate detection is not supported for File 340.

>>>Duplicate detection is not supported for File 342.

>>>Duplicate detection is not supported for File 345.

>>>Duplicate detection is not supported for File 654.

>>>Records from unsupported files will be retained in the RD set.

>>>Record 440:2216761 ignored; incomplete bibliographic data, not retained in RD set

...completed examining records

S2 12 RD (unique items)

?t s2/3,kwic/all

>>>KWIC option is not available in file(s): 398, 399

**2/3,KWIC/1 (Item 1 from file: 155)**

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

06736560 90362597 PMID: 2144028

**Identification of Eimeria brunetti using glucose phosphate isomerase and lactate dehydrogenase .**

Nakamura T; Kawaguchi H; Imose J

Aburahi Laboratories, Shionogi Research Laboratories, Shionogi & Co., Ltd., Shiga, Japan.

Nippon juigaku zasshi. The Japanese journal of veterinary science (JAPAN)

Aug 1990, 52 (4) p859-60, ISSN 0021-5295 Journal Code: 0057113

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

**Identification of Eimeria brunetti using glucose phosphate isomerase and lactate dehydrogenase .**

**2/3,KWIC/2 (Item 2 from file: 155)**

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

01460771 73083928 PMID: 4346146

**Enzymes of coccidia: purification and properties of L- lactate dehydrogenase from Eimeria stiedae.**

Frandsen J C; Cooper J A

Experimental parasitology (UNITED STATES) Dec 1972, 32 (3) p390-402, ISSN 0014-4894 Journal Code: 0370713

Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: Completed

**Enzymes of coccidia: purification and properties of L- lactate dehydrogenase from Eimeria stiedae.**

2/3,KWIC/3 (Item 1 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2003 BIOSIS. All rts. reserv.

01204544 BIOSIS NO.: 000056014746

**ENZYMES OF COCCIDIA PURIFICATION AND PROPERTIES OF L LACTATE DEHYDROGENASE EC-1.1.1.27 FROM EIMERIA -STIEDAE**

AUTHOR: FRANDSEN J C; COOPER J A  
JOURNAL: EXP PARASITOL 32 (3). 1972 (RECD 1973) 390-402. 1972  
FULL JOURNAL NAME: Experimental Parasitology  
CODEN: EXPAA  
RECORD TYPE: Citation

**ENZYMES OF COCCIDIA PURIFICATION AND PROPERTIES OF L LACTATE DEHYDROGENASE EC-1.1.1.27 FROM EIMERIA -STIEDAE**

2/3,KWIC/4 (Item 2 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2003 BIOSIS. All rts. reserv.

00241090 BIOSIS NO.: 000050056090

**EIMERIA -STIEDAE CYTOCHEMICAL IDENTIFICATION OF ENZ ACID PHOSPHATASE AND ENZ ALKALINE PHOSPHATASES ENZ CARBOXYLIC ESTER HYDROLASES AND ENZ SUCCINATE DEHYDROGENASE ENZ LACTATE DEHYDROGENASE AND ENZ GLUCOSE-6 PHOSPHATE DEHYDROGENASE IN ENDOGENOUS STAGES FROM RABBIT TISSUES**

AUTHOR: FRANDSEN J C  
JOURNAL: EXP PARASITOL 23 (3). 398-411. 1968. 1968  
FULL JOURNAL NAME: Experimental Parasitology  
CODEN: EXPAA  
RECORD TYPE: Citation

**EIMERIA -STIEDAE CYTOCHEMICAL IDENTIFICATION OF ENZ ACID PHOSPHATASE AND ENZ ALKALINE PHOSPHATASES ENZ CARBOXYLIC ESTER HYDROLASES AND ENZ SUCCINATE DEHYDROGENASE ENZ LACTATE DEHYDROGENASE AND ENZ GLUCOSE-6 PHOSPHATE DEHYDROGENASE IN ENDOGENOUS STAGES FROM RABBIT TISSUES**

2/3,KWIC/5 (Item 1 from file: 399)  
DIALOG(R)File 399:CA SEARCH(R)  
(c) 2003 American Chemical Society. All rts. reserv.

126263156 CA: 126(20)263156h PATENT  
**Eimeria lactate dehydrogenase cDNA sequence and vector and vaccine for protecting poultry against coccidiosis**

INVENTOR(AUTHOR): Kok, Jacobus Johannes; van den Boogaart, Paul;  
Vermeulen, Arnoldus Nicolaas

LOCATION: Neth.  
ASSIGNEE: Akzo Nobel N.V.  
PATENT: Canada Pat Appl ; CA 2180309 AA DATE: 19970104  
APPLICATION: CA 2180309 (19960702) \*EP 95201801 (19950703)  
PAGES: 50 pp. CODEN: CPXXEB LANGUAGE: English CLASS: C12N-015/53A;  
C12N-009/04B; C07K-016/40B; A61K-039/012B

2/3,KWIC/6 (Item 1 from file: 398)  
DIALOG(R)File 398:CHEMSEARCH(TM)  
(c) 2003 Amer.Chem.Soc. All rts. reserv.

CAS REGISTRY NUMBER: 188856-68-0

MOLECULAR FORMULA: Unknown

CA NAME(S):

HP=Dehydrogenase, lactate (Eimeria acervulina strain Houghton) (9CI)

2/3,KWIC/7 (Item 2 from file: 398)

DIALOG(R)File 398:CHEMSEARCH(TM)

(c) 2003 Amer.Chem.Soc. All rts. reserv.

**CAS REGISTRY NUMBER: 187043-46-5**

MOLECULAR FORMULA: Unknown

REPLACED CAS REGISTRY NUMBER(S) : 188856-67-9

CA NAME(S):

HP=DNA (swine clone pWSPH.01 cytidine monophosphoacetylneuraminate monooxygenase cDNA plus flanks) (9CI)

HP=DNA (pig clone pWSPH.01 cytidine monophosphoacetylneuraminate monooxygenase cDNA plus flanks)

SYNONYMS: Deoxyribonucleic acid (pig clone pWSPH.01 cytidine monophosphoacetylneuraminate monooxygenase cDNA plus flanks); DNA (Eimeria acervulina strain Houghton lactate dehydrogenase cDNA plus flanks)

2/3,KWIC/8 (Item 1 from file: 340)

DIALOG(R)File 340:CLAIMS(R)/US Patent

(c) 2003 IFI/CLAIMS(R). All rts. reserv.

3365083 0024872

**C/COCCIDIOSIS POULTRY VACCINE; NUCLEIC ACIDS ENCODING AN IMMUNOGENIC  
FRAGMENT OF EIMERIA LACTATE DEHYDROGENASE (LDH) WHICH WILL REACT  
WITH ANTISERUM RAISED AGAINST THE LDH; PREPARING A VECTOR VACCINE  
AGAINST COCCIDIOSIS; ADMINISTERING TO PREVENT COCCIDIOSIS IN BIRDS**

Inventors: van den Boogaart Paul (NL); Kok Jacobus Johannes (NL); Vermeulen  
Arnodus Nicolaas (NL)

Assignee: Akzo Nobel N V NL

Assignee Code: 33913

	Kind	Publication Number	Date	Application Number	Date
Priority Applic:	A	US 6100241	20000808	US 96676882	19960703
				EP 95201801	19950703

Calculated Expiration: 20160703

**...NUCLEIC ACIDS ENCODING AN IMMUNOGENIC FRAGMENT OF EIMERIA LACTATE  
DEHYDROGENASE (LDH) WHICH WILL REACT WITH ANTISERUM RAISED AGAINST THE  
LDH; PREPARING A VECTOR VACCINE AGAINST...**

2/3,KWIC/9 (Item 1 from file: 342)

DIALOG(R)File 342:Derwent Patents Citation Indx

(c) 2003 Thomson Derwent. All rts. reserv.

02926615 WPI Acc No: 97-109375/11

**Eimeria lactate dehydrogenase protein - used for prodn. of vaccines against  
coccidiosis in poultry**

Patent Assignee: (ALKU ) AKZO NOBEL NV

Author (Inventor): KOK J J; VAN DEN BOOGAART P; VERMEULEN A N

Patent (basic)

Patent No	Kind	Date	Examiner	Field of Search
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AU 9656287	A	970116	(BASIC)	
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Derwent Week (Basic): 9711

Priority Data: EP 95201801 (950703)

Applications: EP 96201818 (960701); NZ 286915 (960701); ZA 965586 (960701);  
AU 9656287 (960702); CA 2180309 (960702); HU 961809 (960702); JP  
96173890 (960703); US 676882 (960703)

Designated States

(Regional): AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC;

NL; PT; SE  
Derwent Class: B04; C06; D16  
Int Pat Class: A01N-043/04; A61K-031/70; A61K-039/012; C07K-014/435;  
C07K-014/455; C07K-016/20; C07K-016/40; C12N-005/10; C12N-009/04;  
C12N-015/09; C12N-015/30; C12N-015/53; C12N-015/63; C12P-021/02  
Number of Patents: 010  
Number of Countries: 025  
Number of Cited Patents: 017  
Number of Cited Literature References: 015  
Number of Citing Patents: 000

2/3,KWIC/10 (Item 1 from file: 345)  
DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat  
(c) 2003 EPO. All rts. reserv.

13451402  
Basic Patent (No,Kind,Date): CA 2180309 AA 19970104 <No. of Patents: 010>  
**COCCIDIOSIS POULTRY VACCINE** (English; French)  
Patent Assignee: AKZO NOBEL NV (NL)  
Author (Inventor): KOK JACOBUS JOHANNES (NL); VAN DEN BOOGAART PAUL (NL);  
VERMEULEN ARNOLDUS NICOLAAS (NL)  
IPC: \*C12N-015/53; C12N-009/04; C07K-016/40; A61K-039/012  
CA Abstract No: 126(20)263156H  
Language of Document: English  
Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date	
AU 9656287	A1	19970116	AU 9656287	A	19960702	
AU 707350	B2	19990708	AU 9656287	A	19960702	
CA 2180309	AA	19970104	CA 2180309	A	19960702	(BASIC)
EP 775746	A2	19970528	EP 96201818	A	19960701	
EP 775746	A3	19970611	EP 96201818	A	19960701	
HU 9601809	AB	19970528	HU 969601809	A	19960702	
JP 9048797	A2	19970218	JP 96173890	A	19960703	
NZ 286915	A	19980325	NZ 286915	A	19960701	
US 6100241	A	20000808	US 676882	A	19960703	
ZA 9605586	A	19970131	ZA 965586	A	19960701	

Priority Data (No,Kind,Date):  
EP 95201801 A 19950703

Dialog File: Inpadoc/Fam.& Legal Stat\_1968-2003/UD=200318

2/3,KWIC/11 (Item 1 from file: 357)  
DIALOG(R)File 357:Derwent Biotech Res.  
(c) 2003 Thomson Derwent & ISI. All rts. reserv.

0208588 DBR Accession No.: 97-03709 PATENT  
**Eimeria lactate - dehydrogenase protein and DNA - gene cloning and  
vector expression in host cell or organism for fowl recombinant vaccine  
construction against coccidiosis**  
AUTHOR: Kok J J; van den Boogaart P; Vermeulen A N  
CORPORATE SOURCE: Arnhem, The Netherlands.  
PATENT ASSIGNEE: Akzo-Nobel 1997  
PATENT NUMBER: AU 9656287 PATENT DATE: 970116 WPI ACCESSION NO.:  
97-109375 (9711)  
PRIORITY APPLIC. NO.: EP 95201801 APPLIC. DATE: 950703  
NATIONAL APPLIC. NO.: AU 9656287 APPLIC. DATE: 960702  
LANGUAGE: English

**Eimeria lactate - dehydrogenase protein and DNA**

2/3,KWIC/12 (Item 1 from file: 654)  
DIALOG(R)File 654:US PAT.FULL.  
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4362359  
Derwent Accession: 1997-109375



**Utility**

**C/ Coccidiosis poultry vaccine; NUCLEIC ACIDS ENCODING AN IMMUNOGENIC  
FRAGMENT OF EIMERIA LACTATE DEHYDROGENASE (LDH) WHICH WILL REACT WITH  
ANTISERUM RAISED AGAINST THE LDH; PREPARING A VECTOR VACCINE AGAINST  
COCCIDIOSIS; ADMINISTERING TO PREVENT COCCIDIOSIS IN BIRDS**

Inventor: Kok, Jacobus Johannes, Nijmegen, NL  
van den Boogaart, Paul, SC Oss, NL  
Vermeulen, Arnodus Nicolaas, Cuyk, NL

Assignee: Akzo Nobel, N.V. (03), NL  
Akzo Nobel N V NL (Code: 33913)

Examiner: Crouch, Deborah (Art Unit: 162)

Assistant Examiner: Martin, Jill D.

Combined Principal Attorneys: Gormley, Mary E.

	Publication Number	Kind	Date	Application Number	Filing Date
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Main Patent	US 6100241	A	20000808	US 96676882	19960703
Priority				EP 95201801	19950703

Fulltext Word Count: 9585...

0929135 97281360 PMID: 9135668

**Monoclonal antibodies against lactate dehydrogenase of Plasmodium knowlesi.**

Kaushal D C; Kaushal N A; Chandra D  
Division of Microbiology, Central Drug Research Institute, Lucknow, India.

Indian journal of experimental biology (INDIA) Jan 1995 , 33 (1)  
p6-11, ISSN 0019-5189 Journal Code: 0233411

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Lactate dehydrogenase (LDH) of malarial **parasites** has been demonstrated to be biochemically and immunochemically distinct from the equivalent host enzyme. The polyclonal antibodies raised against the purified plasmodial LDH showed specificity to Plasmodium spp. Six hybridoma cell lines secreting monoclonal antibodies specific to Plasmodium knowlesi LDH have been obtained. The two monoclonal antibodies (2A3B7 and 4A6A7) showed high reactivity with LDH from simian (P. knowlesi, P. cynomolgi), human (P. falciparum, P. vivax) and rodent (P. berghei, P. yoelii) malarial **parasites** and did not cross-react with red cell LDH as well as with isoenzymic forms of mammalian LDH (A4, B4 and C4). One monoclonal antibody (4A6A7) strongly inhibited the enzyme activity specifically of plasmodial LDH and did not have any effect on the activity of red cell LDH. The other monoclonal (2A3B7) did not show inhibitory effect on **parasite** LDH. These findings as well as competitive immunoassay studies suggest the presence of at least two **parasite** specific epitopes on plasmodial LDH.


Tags: Animal; Human; Support, Non-U.S. Gov't

Descriptors: Antibodies, Monoclonal; \* **Lactate Dehydrogenase** --immunology  
--IM; \*Plasmodium knowlesi--immunology--IM; Antibody Specificity;  
Enzyme-Linked Immunosorbent Assay

CAS Registry No.: 0 (Antibodies, Monoclonal)

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase)

Record Date Created: 19970604

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## General information about the entry

Entry name	Q8I8U3
Primary accession number	Q8I8U3
Secondary accession numbers	None
Entered in TrEMBL in	Release 23, March 2003
Sequence was last modified in	Release 23, March 2003
Annotations were last modified in	Release 24, June 2003

## Name and origin of the protein

Protein name	Lactate dehydrogenase
Synonyms	None
Gene name	LDH
From	<u>Eimeria maxima</u> [TaxID: <u>5804</u> ]
Taxonomy	<u>Eukaryota</u> ; <u>Alveolata</u> ; <u>Apicomplexa</u> ; <u>Coccidia</u> ; <u>Eimeriida</u> ; <u>Eimeriidae</u> ; <u>Eimeria</u> .

## References

[1]	SEQUENCE FROM NUCLEIC ACID. <u>Schaap D.C.</u> ; "Characterization and cloning of lactate dehydrogenase from three Eimeria species." Submitted (DEC-2002) to the EMBL/GenBank/DDBJ databases.
[2]	SEQUENCE FROM NUCLEIC ACID. <u>Niessen R.</u> , <u>Schaap D.C.</u> ; Submitted (AUG-2002) to the EMBL/GenBank/DDBJ databases.

**Comments**

None

**Cross-references**

EMBL	AY143390; <a href="#">[EMBL / GenBank / DDBJ]</a> AAN38977.1; -. <a href="#">[CoDingSequence]</a>
InterPro	<a href="#">IPR001236</a> ; ldh. <a href="#">IPR001557</a> ; L_LDH. <a href="#">Graphical view of domain structure.</a>
Pfam	<a href="#">PF00056</a> ; ldh; 1. <a href="#">PF02866</a> ; ldh_C; 1.
PRINTS	<a href="#">PR00086</a> ; LLDHDRGNASE.
ProDom	<a href="#">[Domain structure / List of seq. sharing at least 1 domain]</a> .
ProtoMap	<a href="#">Q8I8U3</a> .
PRESAGE	<a href="#">Q8I8U3</a> .
ModBase	<a href="#">Q8I8U3</a> .
SWISS-2DPAGE	<a href="#">Get region on 2D PAGE.</a>

**Keywords**

None

**Features**

None

**Sequence information**

Length: 330 AA	Molecular weight: 35951 Da	CRC64: 380CB5B7151B59E8 [This is a checksum on the sequence]
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## General information about the entry

Entry name	Q8I8U4
Primary accession number	Q8I8U4
Secondary accession numbers	None
Entered in TrEMBL in	Release 23, March 2003
Sequence was last modified in	Release 23, March 2003
Annotations were last modified in	Release 24, June 2003

## Name and origin of the protein

Protein name	Lactate dehydrogenase
Synonyms	None
Gene name	LDH
From	<u>Eimeria tenella</u> [TaxID: 5802]
Taxonomy	<u>Eukaryota</u> ; <u>Alveolata</u> ; <u>Apicomplexa</u> ; <u>Coccidia</u> ; <u>Eimeriida</u> ; <u>Eimeriidae</u> ; <u>Eimeria</u> .

## References

[1]	SEQUENCE FROM NUCLEIC ACID. <u>Schaap D.C.</u> ; "Characterization and cloning of lactate dehydrogenase from three <i>Eimeria</i> species."; Submitted (DEC-2002) to the EMBL/GenBank/DDBJ databases.
[2]	SEQUENCE FROM NUCLEIC ACID. <u>Arts G.</u> , <u>Kroezen H.</u> , <u>Schaap D.C.</u> ; Submitted (AUG-2002) to the EMBL/GenBank/DDBJ databases.

### Comments

None

### Cross-references

EMBL	AY143389; [EMBL / GenBank / DDBJ] AAN38976.1; -. [CoDingSequence]
InterPro	<u>IPR001236</u> ; Idh. <u>IPR001557</u> ; L_LDH. <u>Graphical view of domain structure.</u>
Pfam	<u>PF00056</u> ; Idh; 1. <u>PF02866</u> ; Idh_C; 1.
PRINTS	<u>PR00086</u> ; LLDHDRGNASE.
ProDom	[ <u>Domain structure</u> / <u>List of seq. sharing at least 1 domain</u> ].
ProtoMap	<u>Q8I8U4</u> .
PRESAGE	<u>Q8I8U4</u> .
ModBase	<u>Q8I8U4</u> .
SWISS-2DPAGE	<u>Get region on 2D PAGE.</u>

### Keywords

None

### Features

None

### Sequence information

Length: 331 AA	Molecular weight: 34965 Da	CRC64: BEF87B9F837AE469 [This is a checksum on the sequence]
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130	140	150	160	170	180
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310	320	330			
LNQEEKLLQ	GSIDEVLEMQ	KAIAALDAGK			

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ID AY143388 standard; RNA; INV; 1567 BP.  
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 SV AY143388.1  
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 DT 04-DEC-2002 (Rel. 74, Created)  
 DT 04-DEC-2002 (Rel. 74, Last updated, Version 1)  
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 DE Eimeria acervulina lactate dehydrogenase (LDH) mRNA, complete cds.  
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 OS Eimeria acervulina  
 OC Eukaryota; Alveolata; Apicomplexa; Coccidia; Eimeriida; Eimeriidae;  
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 RN [1]  
 RP 1-1567  
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 RT "Characterization and cloning of lactate dehydrogenase from three Eimeria  
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 RL Unpublished.  
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 RN [2]  
 RP 1-1567  
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File 155:MEDLINE(R) 1966-2003/May W2

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\*File 155: Medline has been reloaded and accession numbers have changed. Please see HELP NEWS 155.

Set Items Description

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?e lactate dehydrogenase

Ref	Items	RT	Index-term
E1	74		LACTATE //SODIUM (SODIUM LACTATE)
E2	16		LACTATE DEHYDRATASE
E3	27809	4	*LACTATE DEHYDROGENASE
E4	9		LACTATE DEHYDROGENASE --ADMINISTRATION AND DOS
E5	4		LACTATE DEHYDROGENASE --ADVERSE EFFECTS --AE
E6	4463		LACTATE DEHYDROGENASE --ANALYSIS --AN
E7	606		LACTATE DEHYDROGENASE --ANTAGONISTS AND INHIBI
E8	310		LACTATE DEHYDROGENASE --BIOSYNTHESIS --BI
E9	8278		LACTATE DEHYDROGENASE --BLOOD --BL
E10	275		LACTATE DEHYDROGENASE --CEREBROSPINAL FLUID --
E11	4		LACTATE DEHYDROGENASE --CHEMICAL SYNTHESIS --C
E12	382		LACTATE DEHYDROGENASE --CHEMISTRY --CH

Enter P or PAGE for more

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Ref	Items	Index-term
E13	23	LACTATE DEHYDROGENASE --CLASSIFICATION --CL
E14	107	LACTATE DEHYDROGENASE --DEFICIENCY --DF
E15	56	LACTATE DEHYDROGENASE --DIAGNOSTIC USE --DU
E16	269	LACTATE DEHYDROGENASE --DRUG EFFECTS --DE
E17	759	LACTATE DEHYDROGENASE --GENETICS --GE
E18	223	LACTATE DEHYDROGENASE --IMMUNOLOGY --IM
E19	619	LACTATE DEHYDROGENASE --ISOLATION AND PURIFICA
E20	11602	LACTATE DEHYDROGENASE --METABOLISM --ME
E21	14	LACTATE DEHYDROGENASE --PHARMACOKINETICS --PK
E22	52	LACTATE DEHYDROGENASE --PHARMACOLOGY --PD
E23	66	LACTATE DEHYDROGENASE --PHYSIOLOGY --PH
E24	101	LACTATE DEHYDROGENASE --RADIATION EFFECTS --RE

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Ref	Items	Index-term
E25	612	LACTATE DEHYDROGENASE --SECRETION --SE
E26	11	LACTATE DEHYDROGENASE --STANDARDS --ST
E27	5	LACTATE DEHYDROGENASE --THERAPEUTIC USE --TU
E28	2	LACTATE DEHYDROGENASE --TOXICITY --TO
E29	11	LACTATE DEHYDROGENASE --ULTRASTRUCTURE --UL
E30	406	LACTATE DEHYDROGENASE --URINE --UR
E31	14	LACTATE DEHYDROGENASE C4
E32	16	LACTATE DEHYDROGENASE 1
E33	2	LACTATE DEHYDROGENASE 2
E34	1	LACTATE DEHYDROGENASE 3
E35	2	LACTATE DEHYDROGENASE 4
E36	26	LACTATE DEHYDROGENASE 5

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Ref	Items	RT	Index-term
E37	260	4	LACTATE DEHYDROGENASE-ELEVATING VIRUS
E38	1		LACTATE DEHYDROGENASE-ELEVATING VIRUS --ANALYS
E39	7		LACTATE DEHYDROGENASE-ELEVATING VIRUS --CHEMIS
E40	9		LACTATE DEHYDROGENASE-ELEVATING VIRUS --CLASSI
E41	8		LACTATE DEHYDROGENASE-ELEVATING VIRUS --DRUG E
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E43	36		LACTATE DEHYDROGENASE-ELEVATING VIRUS --GENETI
E44	19		LACTATE DEHYDROGENASE-ELEVATING VIRUS --GROWTH

E45	108	LACTATE DEHYDROGENASE-ELEVATING VIRUS --IMMUNO
E46	23	LACTATE DEHYDROGENASE-ELEVATING VIRUS --ISOLAT
E47	11	LACTATE DEHYDROGENASE-ELEVATING VIRUS --METABO
E48	31	LACTATE DEHYDROGENASE-ELEVATING VIRUS --PATHOG

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?s e3-e36

27809	LACTATE DEHYDROGENASE
9	LACTATE DEHYDROGENASE --ADMINISTRATION AND DOS
4	LACTATE DEHYDROGENASE --ADVERSE EFFECTS --AE
4463	LACTATE DEHYDROGENASE --ANALYSIS --AN
606	LACTATE DEHYDROGENASE --ANTAGONISTS AND INHIBI
310	LACTATE DEHYDROGENASE --BIOSYNTHESIS --BI
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52	LACTATE DEHYDROGENASE --PHARMACOLOGY --PD
66	LACTATE DEHYDROGENASE --PHYSIOLOGY --PH
101	LACTATE DEHYDROGENASE --RADIATION EFFECTS --RE
612	LACTATE DEHYDROGENASE --SECRETION --SE
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2	LACTATE DEHYDROGENASE --TOXICITY --TO
11	LACTATE DEHYDROGENASE --ULTRASTRUCTURE --UL
406	LACTATE DEHYDROGENASE --URINE --UR
14	LACTATE DEHYDROGENASE C4
16	LACTATE DEHYDROGENASE 1
2	LACTATE DEHYDROGENASE 2
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S1 27809 E3-E36

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R4	9067	B	40	ALCOHOL OXIDOREDUCTASES
R5	0	N	5	EPSILON-CRYSTALLINS

?s r1 or r2

27809	LACTATE DEHYDROGENASE
27809	DC=D8.586.682.47.547. (LACTATE DEHYDROGENASE)
S2 27809	'LACTATE DEHYDROGENASE' OR DC='D8.586.682.47.547.'

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R2	0	X		DC=D12.776.306.366.350. (EPSILON-CRYSTALLINS)
R3	0	X		DC=D8.586.682.47.547.500. (EPSILON-CRYSTALLINS)
R4	0	X	1	CRYSTALLINS, EPSILON
R5	4396	B	15	CRYSTALLINS
R6	27809	B	4	LACTATE DEHYDROGENASE

?s r6

S3 27809 'LACTATE DEHYDROGENASE'

?e lactate dehydrogenase

Ref	Items	RT	Index-term
E1	74		LACTATE //SODIUM (SODIUM LACTATE)

E2	16		LACTATE DEHYDRATASE
E3	27809	4	*LACTATE DEHYDROGENASE
E4	9		LACTATE DEHYDROGENASE --ADMINISTRATION AND DOS
E5	4		LACTATE DEHYDROGENASE --ADVERSE EFFECTS --AE
E6	4463		LACTATE DEHYDROGENASE --ANALYSIS --AN
E7	606		LACTATE DEHYDROGENASE --ANTAGONISTS AND INHIBI
E8	310		LACTATE DEHYDROGENASE --BIOSYNTHESIS --BI
E9	8278		LACTATE DEHYDROGENASE --BLOOD --BL
E10	275		LACTATE DEHYDROGENASE --CEREBROSPINAL FLUID --
E11	4		LACTATE DEHYDROGENASE --CHEMICAL SYNTHESIS --C
E12	382		LACTATE DEHYDROGENASE --CHEMISTRY --CH

Enter P or PAGE for more

?p

Ref	Items	Index-term
E13	23	LACTATE DEHYDROGENASE --CLASSIFICATION --CL
E14	107	LACTATE DEHYDROGENASE --DEFICIENCY --DF
E15	56	LACTATE DEHYDROGENASE --DIAGNOSTIC USE --DU
E16	269	LACTATE DEHYDROGENASE --DRUG EFFECTS --DE
E17	759	LACTATE DEHYDROGENASE --GENETICS --GE
E18	223	LACTATE DEHYDROGENASE --IMMUNOLOGY --IM
E19	619	LACTATE DEHYDROGENASE --ISOLATION AND PURIFICA
E20	11602	LACTATE DEHYDROGENASE --METABOLISM --ME
E21	14	LACTATE DEHYDROGENASE --PHARMACOKINETICS --PK
E22	52	LACTATE DEHYDROGENASE --PHARMACOLOGY --PD
E23	66	LACTATE DEHYDROGENASE --PHYSIOLOGY --PH
E24	101	LACTATE DEHYDROGENASE --RADIATION EFFECTS --RE

Enter P or PAGE for more

?p

Ref	Items	Index-term
E25	612	LACTATE DEHYDROGENASE --SECRETION --SE
E26	11	LACTATE DEHYDROGENASE --STANDARDS --ST
E27	5	LACTATE DEHYDROGENASE --THERAPEUTIC USE --TU
E28	2	LACTATE DEHYDROGENASE --TOXICITY --TO
E29	11	LACTATE DEHYDROGENASE --ULTRASTRUCTURE --UL
E30	406	LACTATE DEHYDROGENASE --URINE --UR
E31	14	LACTATE DEHYDROGENASE C4
E32	16	LACTATE DEHYDROGENASE 1
E33	2	LACTATE DEHYDROGENASE 2
E34	1	LACTATE DEHYDROGENASE 3
E35	2	LACTATE DEHYDROGENASE 4
E36	26	LACTATE DEHYDROGENASE 5

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?p

Ref	Items	RT	Index-term
E37	260	4	LACTATE DEHYDROGENASE-ELEVATING VIRUS
E38	1		LACTATE DEHYDROGENASE-ELEVATING VIRUS --ANALYS
E39	7		LACTATE DEHYDROGENASE-ELEVATING VIRUS --CHEMIS
E40	9		LACTATE DEHYDROGENASE-ELEVATING VIRUS --CLASSI
E41	8		LACTATE DEHYDROGENASE-ELEVATING VIRUS --DRUG E
E42	1		LACTATE DEHYDROGENASE-ELEVATING VIRUS --ENZYMO
E43	36		LACTATE DEHYDROGENASE-ELEVATING VIRUS --GENETI
E44	19		LACTATE DEHYDROGENASE-ELEVATING VIRUS --GROWTH
E45	108		LACTATE DEHYDROGENASE-ELEVATING VIRUS --IMMUNO
E46	23		LACTATE DEHYDROGENASE-ELEVATING VIRUS --ISOLAT
E47	11		LACTATE DEHYDROGENASE-ELEVATING VIRUS --METABO
E48	31		LACTATE DEHYDROGENASE-ELEVATING VIRUS --PATHOG

Enter P or PAGE for more

?p

Ref	Items	Index-term
E49	43	LACTATE DEHYDROGENASE-ELEVATING VIRUS --PHYSIO
E50	1	LACTATE DEHYDROGENASE-ELEVATING VIRUS --RADIAT

?p

Ref	Items	Index-term
E1	1	LACTATE DEHYDROGENASE-ELEVATING VIRUS --RADIAT
E2	9	LACTATE DEHYDROGENASE-ELEVATING VIRUS --ULTRAS
E3	1	LACTATE RACEMASE
E4	103	LACTATE 2-MONOOXYGENASE
E5	2	LACTATE-MALATE TRANSHYDROGENASE
E6	1	LACTATE-2-SULFATE SULFATASE
E7	1	LACTATEA
E8	1	LACTATECARBONYL
E9	1	LACTATEC14
E10	1358	LACTATED
E11	1	LACTATEDEHYDROGENASE
E12	58	LACTATEDEHYDROGENASE

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?ds

Set	Items	Description
S1	27809	E3-E36
S2	27809	'LACTATE DEHYDROGENASE' OR DC='D8.586.682.47.547.'
S3	27809	'LACTATE DEHYDROGENASE'

?s (s1 or s2 or s3) and (eimeri? or coccidi? or parasit? or merozoit? or sporozoit?)

	27809	S1
	27809	S2
	27809	S3
	3195	EIMERI?
	7891	COCCIDI?
	116381	PARASIT?
	2292	MEROZOIT?
	2734	SPOROZOIT?
S4	237	(S1 OR S2 OR S3) AND (EIMERI? OR COCCIDI? OR PARASIT? OR MEROZOIT? OR SPOROZOIT?)

?s s4/1996:2003

	237	S4
	3434468	PY=1996 : PY=2003
S5	82	S4/1996:2003

?s s4 not s5

	237	S4
	82	S5
S6	155	S4 NOT S5

?s s6/1995

	155	S6
	416695	PY=1995
S7	7	S6/1995

?s s6 not s7

	155	S6
	7	S7
S8	148	S6 NOT S7

?s s8 and eimer?

	148	S8
	3216	EIMER?
S9	20	S8 AND EIMER?

?t s9/9/all

9/9/1

DIALOG(R)File 155:MEDLINE(R)

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07362256 92225423 PMID: 1808028

**Enzyme variants of Eimeria parasitizing the domestic fowl and possibilities of species diagnostics.**

Kucera J

Research Institute for Feed Supplements and Veterinary Drugs, Prague, Czechoslovakia.

Folia parasitologica (CZECHOSLOVAKIA) 1991, 38 (3) p193-9, ISSN 0015-5683 Journal Code: 0065750

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Electrophoretic variation of the enzymes lactate dehydrogenase (LDH) and glucosephosphate isomerase (GPI) of *Eimeria* parasitizing the domestic fowl in Czechoslovakia is summarized and the differentiation of species of poultry coccidia is discussed. A new method for evaluation of zymograms of coccidial enzymes is presented. This method enables the results of different experiments to be compared by calculating standardized rates of mobility of each enzyme band relative to the positions of reference variants coded LDH-8 or GPI-9.

Tags: Animal; Comparative Study; Male

Descriptors: Coccidiosis --veterinary--VE; \* *Eimeria* --classification--CL; \*Glucose-6-Phosphate Isomerase--analysis--AN; \* Lactate Dehydrogenase --analysis--AN; \*Poultry Diseases-- parasitology --PS; Chick Embryo; Chickens; Coccidiosis -- parasitology --PS; Czechoslovakia; *Eimeria* --enzymology--EN; Electrophoresis, Starch Gel; Poultry; Retrospective Studies

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 5.3.1.9 (Glucose-6-Phosphate Isomerase)

Record Date Created: 19920518

Record Date Completed: 19920518

9/9/2

DIALOG(R) File 155:MEDLINE(R)

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07299917 92162849 PMID: 1790225

Enzyme variation of *Eimeria acervulina* and *E. tenella* isolated from poultry farms in Japan.

Nakamura T; Kawaguchi H; Imose J; Ogimoto K

Aburahi Laboratory, Shionogi Research Laboratories, Shionogi & Co., Ltd., Shiga, Japan.

Journal of veterinary medical science / the Japanese Society of Veterinary Science (JAPAN) Dec 1991, 53 (6) p1101-3, ISSN 0916-7250

Journal Code: 9105360

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Tags: Animal; Comparative Study

Descriptors: Chickens-- parasitology --PS; \* Coccidiosis --veterinary--VE; \* *Eimeria* --enzymology--EN; \* *Eimeria tenella*--enzymology--EN; \*Poultry Diseases-- parasitology --PS; Coccidiosis -- parasitology --PS; *Eimeria* --classification--CL; *Eimeria tenella*--classification--CL; Electrophoresis, Starch Gel; Feces-- parasitology --PS; Glucose-6-Phosphate Isomerase --analysis--AN; Japan; Lactate Dehydrogenase --analysis--AN; Phenotype

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 5.3.1.9 (Glucose-6-Phosphate Isomerase)

Record Date Created: 19920402

Record Date Completed: 19920402

9/9/3

DIALOG(R) File 155:MEDLINE(R)

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06920706 91161087 PMID: 2488045

Starch gel electrophoresis of lactate dehydrogenase and glucose phosphate isomerase of poultry coccidia using the LKB multiphor.

Kucera J

Research Institute of Feed Supplements and Veterinary Drugs, Jilove, Prague, Czechoslovakia.

Folia parasitologica (CZECHOSLOVAKIA) 1989, 36 (4) p295-9, ISSN 0015-5683 Journal Code: 0065750

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

A modification of thin-layer starch gel horizontal electrophoresis is described. The original method of Wraxall and Culliford (1986) is improved so that the preparation of starch gel is as simple as preparing the agarose gel. Thus the commercially supplied kits and instruments for the agarose gel electrophoresis can be also used for the starch gel electrophoresis. Furthermore, a method of preparing the permanent dry enzymograms from the starch gels with visualized enzymes is presented. The described procedure was used in the LDH and GPI analyses of poultry *coccidia*.

Tags: Animal

Descriptors: **Eimeria** --enzymology--EN; \*Glucose-6-Phosphate Isomerase --analysis--AN; \* **Lactate Dehydrogenase** --analysis--AN; Electrophoresis, Starch Gel; Poultry

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 5.3.1.9 (Glucose-6-Phosphate Isomerase)

Record Date Created: 19910417

Record Date Completed: 19910417

9/9/4

DIALOG(R) File 155:MEDLINE(R)

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06736560 90362597 PMID: 2144028

**Identification of Eimeria brunetti using glucose phosphate isomerase and lactate dehydrogenase.**

Nakamura T; Kawaguchi H; Imose J

Aburahi Laboratories, Shionogi Research Laboratories, Shionogi & Co., Ltd., Shiga, Japan.

Nippon juigaku zasshi. The Japanese journal of veterinary science (JAPAN)

Aug 1990, 52 (4) p859-60, ISSN 0021-5295 Journal Code: 0057113

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Tags: Animal

Descriptors: Chickens; \* **Eimeria** --enzymology--EN; \*Glucose-6-Phosphate Isomerase--analysis--AN; \* **Lactate Dehydrogenase** --analysis--AN; **Coccidiosis** --diagnosis--DI; **Coccidiosis** --parasitology--PS; **Coccidiosis** --veterinary--VE; **Eimeria** --isolation and purification--IP; Electrophoresis, Starch Gel--veterinary--VE; Feces--parasitology--PS; Poultry Diseases--diagnosis--DI; Poultry Diseases--parasitology--PS; Species Specificity; Specific Pathogen-Free Organisms

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 5.3.1.9 (Glucose-6-Phosphate Isomerase)

Record Date Created: 19901004

Record Date Completed: 19901004

9/9/5

DIALOG(R) File 155:MEDLINE(R)

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06146078 89161496 PMID: 2922510

**Enzyme variation and pathogenicity of recent field isolates of Eimeria tenella.**

Shirley M W; Chapman H D; Kucera J; Jeffers T K; Bedrnir P

Institute for Animal Health, Houghton Laboratory, Huntingdon, Cambridgeshire.

Research in veterinary science (ENGLAND) Jan 1989, 46 (1) p79-83, ISSN 0034-5288 Journal Code: 0401300

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed



Subfile: INDEX MEDICUS

Seventy isolates of *Eimeria* tenella, obtained from commercial poultry farms worldwide and four reference laboratory strains were characterised by studies on the electrophoretic mobility of up to three enzymes. All populations possessed the same electrophoretic form of lactate dehydrogenase and malate dehydrogenase and one of two forms of glucose phosphate isomerase. One isolate was characterised by both forms of glucose phosphate isomerase. Studies on several isolates indicated that there was no correlation between the form of glucose phosphate isomerase found and the pathogenicity of an isolate.

Tags: Animal; Comparative Study

Descriptors: *Eimeria* --enzymology--EN; \*Glucose-6-Phosphate Isomerase --analysis--AN; \*Lactate Dehydrogenase --analysis--AN; \*Malate Dehydrogenase--analysis--AN; Chickens--parasitology --PS; Coccidiosis --parasitology --PS; Coccidiosis --veterinary--VE; *Eimeria* --isolation and purification--IP; *Eimeria* --pathogenicity--PY; Electrophoresis, Starch Gel; Poultry Diseases--parasitology --PS

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 1.1.1.37 (Malate Dehydrogenase); EC 5.3.1.9 (Glucose-6-Phosphate Isomerase)

Record Date Created: 19890411

Record Date Completed: 19890411

9/9/6

DIALOG(R) File 155:MEDLINE(R)

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05281583 86282848 PMID: 3735889

**Isozymes of chicken coccidia in Japan.**

Nakamura T; Konishi T; Kawaguchi H

Nippon juigaku zasshi. The Japanese journal of veterinary science (JAPAN)

Jun 1986, 48 (3) p587-90, ISSN 0021-5295 Journal Code: 0057113

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Tags: Animal

Descriptors: Coccidiosis --veterinary--VE; \**Eimeria* --enzymology--EN; \*Glucose-6-Phosphate Isomerase--genetics--GE; \*Isoenzymes--genetics--GE; \*Lactate Dehydrogenase --genetics--GE; \*Poultry Diseases--parasitology --PS; Coccidiosis --parasitology --PS; *Eimeria* --genetics--GE; Japan; Variation (Genetics)

CAS Registry No.: 0 (Isoenzymes)

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 5.3.1.9 (Glucose-6-Phosphate Isomerase)

Record Date Created: 19860917

Record Date Completed: 19860917

9/9/7

DIALOG(R) File 155:MEDLINE(R)

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04427277 84069417 PMID: 6646805

**Studies to determine the taxonomic status of *Eimeria mitis*, Tyzzer 1929 and *E. mivati*, Edgar and Seibold 1964.**

Shirley M W; Jeffers T K; Long P L

Parasitology (ENGLAND) Oct 1983, 87 (Pt 2) p185-98, ISSN 0031-1820

Journal Code: 0401121

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

We have examined several taxonomic features of a number of strains of *Eimeria* from many sources world wide. The strains were isolated on the basis of their small spherical (or sub-spherical) oocysts. From a study of mean oocyst dimensions, electrophoretic variation of enzymes, ability to

develop in embryonated eggs, absence of gross lesions in heavily infected chickens, and cross-immunity, all the strains were found to belong to one species. For convenience, the **parasites** when isolated, were referred to as strains of *E. mitis/mivati*-type, but after characterization they were clearly found to be *E. mitis*. In contrast, a laboratory strain of *E. mivati* supplied to one of us (M.W.S.) was found to be a mixture of *E. acervulina* and *E. mitis*. Evidence from these and other studies supports the notion that *E. mivati* is a *nomina dubia*.

Tags: Animal; Comparative Study; Male

Descriptors: Chickens--**parasitology** --PS; \* **Eimeria** --classification--CL; Body Weight; Cross Reactions; **Eimeria** --immunology--IM; **Eimeria** --pathogenicity--PY; **Eimeria** --physiology--PH; Electrophoresis, Starch Gel; Glucose-6-Phosphate Isomerase--analysis--AN; Immunization; **Lactate Dehydrogenase** --analysis--AN

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 5.3.1.9

(Glucose-6-Phosphate Isomerase)

Record Date Created: 19840107

Record Date Completed: 19840107

9/9/8

DIALOG(R) File 155:MEDLINE(R)

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04090980 83220370 PMID: 6856328

**Enzyme activity of the tissues of chicks with coccidiosis (*Eimeria tenella*)**

Aktivnost' nekotorykh fermentov tkanei tsypliat pri koktsidioze (*Eimeria tenella*).

Musaev M A; Elchiev Ia Ia; Mamedova G A

Parazitologiya (USSR) Mar-Apr 1983, 17 (2) p95-100, ISSN 0031-1847

Journal Code: 0101672

Document type: Journal Article ; English Abstract

Languages: RUSSIAN

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

It has been established that during experimental infection of chickens with *Eimeria tenella* the decrease in the activity of lactate dehydrogenase of blood serum and the increase of the activity of glutathione reductase in erythrocytes take place. In birds treated with chemococcid (70 mg/kg of food) the activity of these ferments does not change. The ferment activity of glucose-6-phosphate dehydrogenase does not change in erythrocytes of sick birds while during the treatment with chemococcid its activity increases. The activity of aspartate aminotransferase decreases in tissues of muscles and increases in liver and brain of sick birds. The activity of alanine aminotransferase decreases in the brain in three and increases in seven days after the infection.

Tags: Animal; Comparative Study

Descriptors: Chickens--metabolism--ME; \* **Coccidiosis** --enzymology--EN; \*Poultry Diseases--enzymology--EN; Brain--enzymology--EN; **Coccidiosis** --veterinary--VE; Erythrocytes--enzymology--EN; Glucosephosphate Dehydrogenase--blood--BL; Glutathione Reductase--blood--BL; Histocytochemistry; **Lactate Dehydrogenase** --blood--BL; Liver--enzymology--EN; Muscles --enzymology--EN; Transaminases--metabolism--ME

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 1.1.1.49 (Glucosephosphate Dehydrogenase); EC 1.6.4.2 (Glutathione Reductase); EC 2.6.1. (Transaminases)

Record Date Created: 19830708

Record Date Completed: 19830708

9/9/9

DIALOG(R) File 155:MEDLINE(R)

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03844132 82256366 PMID: 7103889

**Attenuation of a strain of *Eimeria mivati* of U.S. origin by serial embryo passage.**

Long P L; Johnson J; Gore T C  
Avian diseases (UNITED STATES) Apr-Jun 1982, 26 (2) p305-13, ISSN  
0005-2086 Journal Code: 0370617  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: Completed  
Subfile: INDEX MEDICUS

A strain of *Eimeria* mivati (FS50) isolated in Georgia was purified and serially passaged in groups of developing chicken embryos. Starch gel electrophoresis using glucose phosphate isomerase and lactate dehydrogenase showed the parasite to be similar to another strain of *E. mivati* isolated in the U.S. The embryo-passaged line of *E. mivati* (FS50) was less pathogenic than the parent line but retained its immunogenicity. This strain may be suitable for inclusion in an improved coccidiosis vaccine. The status of *E. mivati* and *E. mitis* is discussed.

Tags: Animal; Male; Support, Non-U.S. Gov't  
Descriptors: Chick Embryo-- parasitology --PS; \*Chickens-- parasitology --PS; \* *Eimeria* --isolation and purification--IP; \*Vaccines, Attenuated --isolation and purification--IP; Coccidiosis --prevention and control--PC; Coccidiosis --veterinary--VE; *Eimeria* --enzymology--EN; *Eimeria* --immunology--IM; *Eimeria* --pathogenicity--PY; Electrophoresis, Starch Gel; Glucose-6-Phosphate Isomerase--analysis--AN; Lactate Dehydrogenase --analysis--AN; Poultry Diseases--prevention and control--PC; Vaccination --veterinary--VE  
CAS Registry No.: 0 (Vaccines, Attenuated)  
Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 5.3.1.9 (Glucose-6-Phosphate Isomerase)  
Record Date Created: 19820924  
Record Date Completed: 19820924

9/9/10  
DIALOG(R) File 155:MEDLINE(R)  
(c) format only 2003 The Dialog Corp. All rts. reserv.

03804681 82216507 PMID: 7086714  
The biology and pathogenicity of a recent field isolate of *Eimeria* praecox Johnson, 1930.

Gore T C; Long P L  
Journal of protozoology (UNITED STATES) Feb 1982, 29 (1) p82-5,  
ISSN 0022-3921 Journal Code: 2985197R  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: Completed  
Subfile: INDEX MEDICUS

A recent isolate of *Eimeria* praecox, strain G, was obtained from Georgia and purified. Studies of the life history, pathogenicity, and cross-immunity of the isolate were conducted to verify its identity. In inoculated three-week-old chickens, the occurrence of merogony and gametogony was limited to the superficial epithelium of the upper intestine. Oocysts, 23 x 19.5 microns, with a shape index of 1.17 were first observed 83 h after inoculation. Mortality and morbidity were not observed in any of the experimental birds. However, there was a positive correlation between dose of oocysts, reduced weight gain, and the incidence of exudative diathesis. These studies showed that *E. praecox* depresses weight gains in chickens and may be of economic importance. Although complete immunity to avian coccidiosis is believed to be species specific, chickens immune to *E. praecox* (G) or *E. acervulina* had a degree of cross-immunity to a heterologous challenge. Electrophoretic analysis of glucose phosphate isomerase and lactate dehydrogenase prepared from the European strain of *E. praecox* and *E. praecox* (G) showed no differences, confirming the identity of the isolate as *E. praecox*.

Tags: Animal; Male  
Descriptors: Chickens-- parasitology --PS; \* *Eimeria* --pathogenicity--PY; \*Intestines-- parasitology --PS; Body Weight; Coccidiosis --immunology--IM; Cross Reactions; *Eimeria* --growth and development--GD; *Eimeria* --immunology--IM; Glucosephosphate Dehydrogenase--analysis--AN; Isoenzymes

--analysis--AN; **Lactate Dehydrogenase** --analysis--AN  
CAS Registry No.: 0 (Isoenzymes)  
Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 1.1.1.49  
(Glucosephosphate Dehydrogenase)  
Record Date Created: 19820807  
Record Date Completed: 19820807

9/9/11

DIALOG(R) File 155:MEDLINE(R)

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03068132 79246004 PMID: 471536

**A reappraisal of the taxonomic status of Eimeria mivati Edgar and Seibold 1964, by enzyme electrophoresis and cross-immunity tests.**

Shirley M W

Parasitology (ENGLAND) Apr 1979, 78 (2) p221-37, ISSN 0031-1820

Journal Code: 0401121

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

An examination of 2 strains of *Eimeria acervulina* var. *mivati* (since 1973 *E. mivati* has been regarded as a variant of *E. acervulina*) showed that previous confusion over the taxonomic status of *E. mivati* arose because the investigations were done using laboratory cultures of *E. mivati* which were contaminated with *E. acervulina*. Electrophoretic analyses of enzymes, host specificity and cross-immunity tests have revealed that: (1) The 1971 Houghton strain of *E. acervulina* var. *mivati* was a mixture of 2 **parasites**. (a) Passage of this strain in embryonating eggs resulted in a selection against that **parasite** previously characterized as *E. acervulina*. (b) The **parasite** which did reproduce in eggs did not immunize chickens against subsequent challenge with *E. acervulina*. This **parasite** is most likely *E. mivati*. (c) *E. mivati* recovered from eggs did, however, immunize chickens against challenge with a new field strain which was morphologically identical to *E. mivati* and characterized by the same electrophoretic forms of 2 enzymes. (2) A strain of *E. acervulina* var. *mivati* from the USA was also a mixture of *E. acervulina* and *E. mivati*.

Tags: Animal

Descriptors: **Eimeria** --classification--CL; Chick Embryo; Cross Reactions; **Eimeria** --enzymology--EN; **Eimeria** --immunology--IM; Electrophoresis; Glucose-6-Phosphate Isomerase--analysis--AN; Glucosephosphate Dehydrogenase--analysis--AN; **Lactate Dehydrogenase** --analysis--AN; Phosphogluconate Dehydrogenase--analysis--AN

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 1.1.1.43 (Phosphogluconate Dehydrogenase); EC 1.1.1.49 (Glucosephosphate Dehydrogenase); EC 5.3.1.9 (Glucose-6-Phosphate Isomerase)

Record Date Created: 19791024

Record Date Completed: 19791024

9/9/12

DIALOG(R) File 155:MEDLINE(R)

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02924020 79099449 PMID: 735305

**Alteration of enzyme activities in serum of Eimeria stiedai infected rabbits (author's transl)]**

Veränderungen der Enzymaktivitäten im Serum bei *Eimeria stiedai* infizierten Kaninchen.

Hein B; Lammler G

Zeitschrift für Parasitenkunde (Berlin, Germany) (GERMANY, WEST) Nov 27 1978, 57 (3) p199-211, ISSN 0044-3255 Journal Code: 8710749

Document type: Journal Article ; English Abstract

Languages: GERMAN

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

In experimental investigations on *Eimeria stiedai* infected rabbits, serum enzymatic studies have been carried out in correlation with the examination of **parasitological** and pathological parameters. The rabbits were orally infected with a single dose of either 100,000 or 250,000 sporulated oocysts. Increase of the activity of the sorbit dehydrogenase (SDH), glutamate oxalate transaminase (GOT), glutamate pyruvate transaminase (GPT) and glutamate dehydrogenase (GLDH) could be found first between 3 and 10 days after infection indicating the beginning of the acute phase of liver **coccidiosis**. The increase of the conjugated bilirubin and of the gamma-glutamyl-transferase (gamma-GT) could be found not earlier than 10 days after infection and is to be explained as sign of disturbed efficiency of excretion. The various investigated parameters reached their peak of alteration about the end of the prepatent period and at the beginning of patency between 14 and 21 days after infection. The results emphasize the value and usefulness of serum enzymes, particularly the glutamate dehydrogenase (GLDH) and the gamma-glutamyl-transferase (gamma-GT) with about 30fold activity, as indicators in the course of *Eimeria stiedai* infection of rabbits. The enzymes returned to physiological values at the end of the experiment, 42 days after infection. Significant differences could not be detected within the infected groups. The activities of the alkaline phosphatase (AP), leucine aminopeptidase (LAP), choline esterase (ChE), lactate dehydrogenase (LDH) and isoenzym 1 (alpha-HBDH) showed only slight alterations and proved to be no significant parameters for the pathophysiological evaluation of the liver **coccidiosis**.

Tags: Animal; Male

Descriptors: **Coccidiosis** --enzymology--EN; Bilirubin--blood--BL; **Coccidiosis** --blood--BL; **Coccidiosis** --parasitology--PS; *Eimeria* --growth and development--GD; Glutamate Dehydrogenase--blood--BL; Hydrolases--blood--BL; Isoenzymes; L-Iditol 2-Dehydrogenase--blood--BL; **Lactate Dehydrogenase** --blood--BL; Rabbits; Transaminases--blood--BL  
 CAS Registry No.: 0 (Isoenzymes); 635-65-4 (Bilirubin)  
 Enzyme No.: EC 1.1.1.14 (L-Iditol 2-Dehydrogenase); EC 1.1.1.27 (Lactate Dehydrogenase); EC 1.4.1.2 (Glutamate Dehydrogenase); EC 2.6.1. (Transaminases); EC 3. (Hydrolases)  
 Record Date Created: 19790324  
 Record Date Completed: 19790324

9/9/13

DIALOG(R) File 155:MEDLINE(R)

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02903907 79078933 PMID: 726560

**Electrophoretic variation of enzymes: a further marker for genetic studies of the *Eimeria*.**

Shirley M W

Zeitschrift fur Parasitenkunde (Berlin, Germany) (GERMANY, WEST) Sep 4 1978, 57 (1) p83-7, ISSN 0044-3255 Journal Code: 8710749

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Embryo-adapted strains of *Eimeria mivati* and *E. mivati* var. *diminuta*, differing in their sensitivity to sulphaquinoxaline and electrophoretic mobilities of lactate dehydrogenase, were crossed. *E. mivati* was sulphaquinoxaline-resistant and characterised by an electrophoretic form of the enzyme denoted lactate dehydrogenase-1 whereas *E. mivati* var. *diminuta* was sulphaquinoxaline-sensitive and characterised by lactate dehydrogenase-6. Progeny recovered from the cross were passaged in embryonating eggs given sulphaquinoxaline and the (drug-resistant) **parasites** recovered were characterised by both lactate dehydrogenase-1 and lactate dehydrogenase-6. Controls showed that those **parasites** characterised by the recombinant phenotype of drug-resistant and lactate dehydrogenase-6 had been produced by the cross-fertilisation of gametes.

Tags: Animal

Descriptors: *Eimeria* --genetics--GE; \* **Lactate Dehydrogenase** --genetics--GE; \*Recombination, Genetic; Chick Embryo--parasitology--PS; Drug

Resistance, Microbial; **Eimeria** --drug effects--DE; **Eimeria** --enzymology  
--EN; **Eimeria** --physiology--PH; Isoenzymes; **Lactate Dehydrogenase**  
--biosynthesis--BI; Spores; Sulfaquinoxaline--pharmacology--PD  
CAS Registry No.: 0 (Isoenzymes); 59-40-5 (Sulfaquinoxaline)  
Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase)  
Record Date Created: 19790221  
Record Date Completed: 19790221

9/9/14

DIALOG(R) File 155:MEDLINE(R)

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02625433 78051975 PMID: 927886

**Strain variations within Eimeria meleagriditis from the turkey.**

Long P L; Millard B J; Shirley M W

Parasitology (ENGLAND) Oct 1977, 75 (2) p177-82, ISSN 0031-1820

Journal Code: 0401121

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

During the course of a field study of **coccidiosis** in turkeys, **Eimeria** oocysts were found which had much smaller dimensions than any previously recorded isolate from the turkey. These oocysts were purified by single oocyst infection of a turkey. The first oocysts (mean dimensions 16-15 X 14-75 micrometer) were recovered 103 h later. Inoculation of between 0-5 and 2-5 X 10(5) oocysts of this isolate caused severe effects on body weight gain. Cross-immunity studies showed the **parasite** to be a strain of **E. meleagriditis**. Electrophoretic analyses of two enzymes showed that the strain could be differentiated from another strain of **E. meleagriditis** (Weybridge strain B). The results show that strain variation occurs within the species **E. meleagriditis** and extreme caution should be used in identifying species of **Eimeria** from the turkey by the oocyst characters.

Tags: Animal

Descriptors: **Eimeria** --classification--CL; \*Turkeys-- **parasitology** --PS  
; **Eimeria** --pathogenicity--PY; **Eimeria** --physiology--PH;  
Glucose-6-Phosphate Isomerase--analysis--AN; **Lactate Dehydrogenase**  
--analysis--AN; Species Specificity

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 5.3.1.9  
(Glucose-6-Phosphate Isomerase)

Record Date Created: 19780127

Record Date Completed: 19780127

9/9/15

DIALOG(R) File 155:MEDLINE(R)

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02625432 78051974 PMID: 927885

**Studies on the growth, chemotherapy and enzyme variation of Eimeria acervulina var. diminuta and E. acervulina var. mivati.**

Shirley M W; Millard B J; Long P L

Parasitology (ENGLAND) Oct 1977, 75 (2) p165-76, ISSN 0031-1820

Journal Code: 0401121

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

**Eimeria acervulina** var. **diminuta** was serially passaged 12 times in chicken embryos, but growth in cultured chick kidney cells was limited to 2 generations of schizonts. After 7 embryo passages the sensitivities of **E. acervulina** var. **diminuta** and an embryo-adapted strain of **E. acervulina** var. **mivati** to the anticoccidial drugs amprolium, methyl benzyquate, robenidine and sulphaquinoxaline were compared. Both **parasites** were sensitive to all the anticoccidials but **E. acervulina** var. **diminuta** was more sensitive to sulphaquinoxaline and amprolium. The chicken-maintained strain of **E.**

acervulina var. diminuta was extremely sensitive to clopidol, sulphaquinoxaline and decoquinate. Electrophoretic analyses of several enzymes from E. acervulina var. diminuta revealed enzyme profiles with similarities and differences to the embryo-adapted strain of E. acervulina var. mivati.

Tags: Animal; Comparative Study

Descriptors: **Coccidiostats** --pharmacology--PD; \* **Eimeria** ; Cells, Cultured; **Eimeria** --drug effects--DE; **Eimeria** --enzymology--EN; **Eimeria** --growth and development--GD; Glucose-6-Phosphate Isomerase --analysis--AN; Glucosephosphate Dehydrogenase--analysis--AN; **Lactate Dehydrogenase** --analysis--AN; Oxidoreductases--analysis--AN; Phosphoglucomutase--analysis--AN

CAS Registry No.: 0 (Coccidiostats)

Enzyme No.: EC 1. (Oxidoreductases); EC 1.1.1.27 (Lactate Dehydrogenase); EC 1.1.1.49 (Glucosephosphate Dehydrogenase); EC 5.3.1.9 (Glucose-6-Phosphate Isomerase); EC 5.4.2.2 (Phosphoglucomutase)

Record Date Created: 19780127

Record Date Completed: 19780127

9/9/16

DIALOG(R) File 155:MEDLINE(R)

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02477294 77167679 PMID: 859094

**Isoelectric focusing of coccidial enzymes.**

Shirley M W; Lee D L

Journal of parasitology (UNITED STATES) Apr 1977, 63 (2) p390-2, ISSN 0022-3395 Journal Code: 7803124

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Tags: Animal

Descriptors: **Eimeria** --enzymology--EN; Isoelectric Focusing; Isoenzymes; **Lactate Dehydrogenase** --isolation and purification--IP

CAS Registry No.: 0 (Isoenzymes)

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase)

Record Date Created: 19770630

Record Date Completed: 19770630

9/9/17

DIALOG(R) File 155:MEDLINE(R)

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02125300 76076735 PMID: 1202411

**Enzyme variation in Eimeria species of the chicken.**

Shirley M W

Parasitology (ENGLAND) Dec 1975, 71 (3) p369-76, ISSN 0031-1820 Journal Code: 0401121

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

A method for the biochemical identification of protozoa belonging to the genus **Eimeria** is described for the first time. Starch gel electrophoresis of the enzymes lactate dehydrogenase, glucose phosphate isomerase, 6-phosphogluconate dehydrogenase and glucose-6-phosphate dehydrogenase from **parasite** extracts revealed both intra- and inter-species differences when 11 strains representative of 6 species of **Eimeria** were examined. Oocysts were the most accessible **parasite** stage for investigation but **sporozoites** and **merozoites** of an embryo-adapted strain of E. tenella were also examined for enzyme activity.

Tags: Animal

Descriptors: Chickens-- **parasitology** --PS; \* **Eimeria** --enzymology--EN; Chick Embryo; Glucose-6-Phosphate Isomerase--metabolism--ME; Glucosephospha

te Dehydrogenase--metabolism--ME; **Lactate Dehydrogenase** --metabolism--ME;  
Phosphogluconate Dehydrogenase--metabolism--ME  
Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 1.1.1.43  
(Phosphogluconate Dehydrogenase); EC 1.1.1.49 (Glucosephosphate  
Dehydrogenase); EC 5.3.1.9 (Glucose-6-Phosphate Isomerase)  
Record Date Created: 19760301  
Record Date Completed: 19760301

9/9/18

DIALOG(R) File 155:MEDLINE(R)

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01460771 73083928 PMID: 4346146

**Enzymes of coccidia : purification and properties of L-lactate  
dehydrogenase from Eimeria stiedae.**

Frandsen J C; Cooper J A

Experimental parasitology (UNITED STATES) Dec 1972, 32 (3) p390-402,  
ISSN 0014-4894 Journal Code: 0370713

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Tags: Animal

Descriptors: **Eimeria** --enzymology--EN; \* **Lactate Dehydrogenase**  
--isolation and purification--IP; Ammonium Sulfate; Buffers; Centrifugation  
; Chromatography, Gel; Dialysis; **Eimeria** --isolation and purification--IP;  
Electrophoresis, Disc; Hydrogen-Ion Concentration; Isoenzymes; Kinetics;  
Lactates; Liver--microbiology--MI; Methods; NAD; Oxidation-Reduction;  
Pressure; Pyruvates; Rabbits; Temperature

CAS Registry No.: 0 (Buffers); 0 (Isoenzymes); 0 (Lactates); 0  
(Pyruvates); 53-84-9 (NAD); 7783-20-2 (Ammonium Sulfate)

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase)

Record Date Created: 19730319

Record Date Completed: 19730319

9/9/19

DIALOG(R) File 155:MEDLINE(R)

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00806844 70113596 PMID: 5414955

**Eimeria stiedae: cytochemical identification of enzymes and lipids in  
sporozoites and endogenous stages.**

Frandsen J C

Experimental parasitology (UNITED STATES) Feb 1970, 27 (1) p100-15,  
ISSN 0014-4894 Journal Code: 0370713

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Descriptors: **Eimeria** --analysis--AN; \* **Eimeria** --enzymology--EN;  
\*Lipids--analysis--AN; Acid Phosphatase--analysis--AN; Alkaline Phosphatase  
--analysis--AN; **Eimeria** --cytology--CY; **Eimeria** --growth and development  
--GD; Esterases--analysis--AN; Fructose-Bisphosphate Aldolase--analysis--AN  
; Galactosidases--analysis--AN; Glucosephosphate Dehydrogenase--analysis  
--AN; Glucosidases--analysis--AN; Histocytochemistry; **Lactate  
Dehydrogenase** --analysis--AN; Leucyl Aminopeptidase--analysis--AN;  
Metamorphosis, Biological

CAS Registry No.: 0 (Lipids)

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 1.1.1.49  
(Glucosephosphate Dehydrogenase); EC 3.1. (Esterases); EC 3.1.3.1  
(Alkaline Phosphatase); EC 3.1.3.2 (Acid Phosphatase); EC 3.2.1.-  
(Galactosidases); EC 3.2.1.- (Glucosidases); EC 3.4.11.1 (Leucyl  
Aminopeptidase); EC 4.1.2.13 (Fructose-Bisphosphate Aldolase)

Record Date Created: 19700402

Record Date Completed: 19700402



9/9/20

DIALOG(R) File 155:MEDLINE(R)

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00547925 69079196 PMID: 5701763

**Eimeria stiedae: cytochemical identification of acid and alkaline phosphatases, carboxylic ester hydrolases, and succinate, lactate, and glucose-6-phosphate dehydrogenases in endogenous stages from rabbit tissues.**

Frandsen J C

Experimental parasitology (UNITED STATES) Dec 1968, 23 (3) p398-411,  
ISSN 0014-4894 Journal Code: 0370713

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Tags: Animal

Descriptors: **Eimeria** --enzymology--EN; \*Enzymes--analysis--AN; Acid Phosphatase--analysis--AN; Alkaline Phosphatase--analysis--AN; Esterases --analysis--AN; Glucosephosphate Dehydrogenase--analysis--AN; Histocytochemistry; **Lactate Dehydrogenase** --analysis--AN; Liver--enzymology--EN; Rabbits; Succinate Dehydrogenase--analysis--AN

CAS Registry No.: 0 (Enzymes)

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 1.1.1.49 (Glucosephosphate Dehydrogenase); EC 1.3.99.1 (Succinate Dehydrogenase); EC 3.1. (Esterases); EC 3.1.3.1 (Alkaline Phosphatase); EC 3.1.3.2 (Acid Phosphatase)

Record Date Created: 19690217

Record Date Completed: 19690217

?ds

STIC-ILL

108 10 5/15

445 981

From: Portner, Ginny  
Sent: Thursday, May 15, 2003 11:41 AM  
T: STIC-ILL  
Cc: Smith, Lynette  
Subj ct: 09/380,846; references requested for lactate dehydrogenase claims

2125300 76076735 PMID: 1202411  
Enzyme variation in Eimeria species of the chicken.  
Shirley M W  
Parasitology (ENGLAND) Dec 1975, 71 (3) p369-76, ISSN 0031-1820  
Journal Code: 0401121  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: Completed  
Subfile: INDEX MEDICUS

Ginny Portner  
CM1, Art Unit 1645  
Room 7e13  
Mail box 7e12  
(703) 308-7543

102(6)  
Claims  
1-3, 11, 13, 16-29, 23, 24, 11, 19  
vacant intended  
use

10579957

STIC-ILL

10584353

NO 5/15

From: Portner, Ginny  
Sent: Thursday, May 15, 2003 11:37 AM  
To: STIC-ILL  
Cc: Smith, Lynette  
Subject: 09/380,846; references requested for lactate dehydrogenase claims

4/5976

06920706 91161087 PMID: 2488045

Starch gel electrophoresis of lactate dehydrogenase and glucose phosphate isomerase of poultry coccidia using the LKB multiphor.

Kucera J

Research Institute of Feed Supplements and Veterinary Drugs, Jilove, Prague, Czechoslovakia.

Folia parasitologica (CZECHOSLOVAKIA) 1989, 36 (4) p295-9, ISSN

0015-5683 Journal Code: 0065750

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

436.8.C33

Ginny Portner  
CM1, Art Unit 1645  
Room 7e13  
Mail box 7e12  
(703) 308-7543

102(6)  
Claims 1-3, 18

1-3, 16-18, 23

in case  
intended use

STIC-ILL

NO 5/15

From: Portner, Ginny  
Sent: Thursday, May 15, 2003 11:36 AM  
To: STIC-ILL  
Cc: Smith, Lynette  
Subj ct: 09/380,846; references requested for lactate dehydrogenase claims

445977

Importance: High

07299917 92162849 PMID: 1790225

Enzyme variation of Eimeria acervulina and E. tenella isolated from poultry farms in Japan.

Nakamura T; Kawaguchi H; Imose J; Ogimoto K  
Aburahi Laboratory, Shionogi Research Laboratories, Shionogi & Co., Ltd., Shiga, Japan.

Journal of veterinary medical science / the Japanese Society of Veterinary Science (JAPAN) Dec 1991, 53 (6) p1101-3, ISSN 0916-7250

Journal Code: 9105360

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Ginny Portner  
CM1, Art Unit 1645  
Room 7e13  
Mail box 7e12  
(703) 308-7543

102(b)

Claims 1-3, 18, 16, 17

23

inaccus  
intended  
use

16567918

STIC-ILL

Vol no 5/15

From: Portner, Ginny  
Sent: Thursday, May 15, 2003 11:39 AM  
T : STIC-ILL  
Cc: Smith, Lynette  
Subject: 09/380,846; references requested for lactate dehydrogenase claims

445 982

03068132 79246004 PMID: 471536

A reappraisal of the taxonomic status of *Eimeria mivati* Edgar and Seibold 1964, by enzyme electrophoresis and cross-immunity tests.

Shirley M W

Parasitology (ENGLAND) Apr 1979, 78 (2) p221-37, ISSN 0031-1820

Journal Code: 0401121

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

448.8. P21

Ginny Portner  
CM1, Art Unit 1645  
Room 7e13  
Mail box 7e12  
(703) 308-7543

7.96

10579950